

3mm Round Lens, Bi-color LED Red/Yellow Emitting Colour

multicomp PRO

**RoHS
Compliant**



Feature

- High intensity
- Standard T- 1 3/4 diameter package
- High Radiant Intensity
- Reliable and rugged

Specification

Lead spacing is measured where the leads emerge from the package

| Source Colour | Chip Material | Lens Colour |
|---------------|---------------|----------------|
| Red | AlGaAs | White Diffused |
| Yellow | GaP | |

Absolute Maximum Rating at T_A = 25°C

| Parameter | Max. | | Unit |
|---|---------------------|--------------|------|
| | Red | Yellow Green | |
| Power Dissipation | 100 | 100 | mW |
| Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width) | 100 | 100 | mA |
| Continuous Forward Current | 30 | 30 | mA |
| Reverse Voltage | 5 | | V |
| Operating Temperature Range | -25°C to +80°C | | |
| Storage Temperature Range | -40°C to +100°C | | |
| Lead Soldering Temperature [4mm (0.157) From Body] | 260°C for 5 seconds | | |

Electrical Optical Characteristics at T_A=25°C

| Parameter | Symbol | Colour | Typ. | Max. | Unit | Test Condition |
|------------------------------|-------------------|--------|------|------|------|--------------------------------|
| Luminous Intensity | I _v | Red | 40 | - | mcd | I _f = 20mA (Note 1) |
| | | Yellow | 25 | - | | |
| Viewing Angle | 2θ _{1/2} | - | 60 | - | Deg. | Note 2 |
| Peak Emission Wavelength | λ _p | Red | 660 | - | nm | I _f = 20mA |
| | | Yellow | 590 | - | | |
| Dominant Emission Wavelength | λ _d | Red | 645 | - | nm | I _f = 20mA (Note 3) |
| | | Yellow | 585 | - | | |
| Spectral Line Half-Width | Δλ | - | 25 | - | nm | I _f = 20mA |

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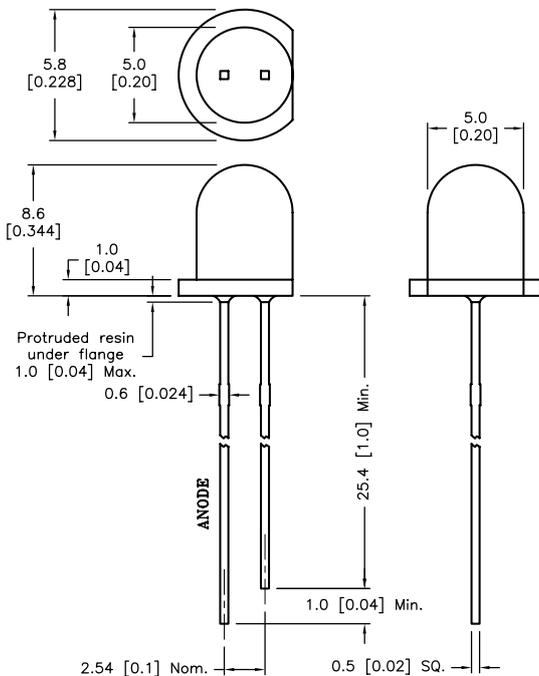


| Parameter | Symbol | Colour | Typ. | Max. | Unit | Test Condition |
|-----------------|----------------|--------|------|------|------|-----------------------|
| Forward Voltage | V _f | Red | 1.85 | - | V | I _f = 20mA |
| | | Yellow | 1.9 | - | | |
| Reverse Current | I _R | Red | - | 100 | μA | V _R = 5V |
| | | Yellow | - | 100 | | |

Notes:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. θ_{1/2} is the off-axis angle at which the luminous intensity is half the axial luminous intensity
3. The dominant wavelength (λ_d) is derived from the CIE chromaticity single wavelength which defines the colour of the device.

Diagram



Dimensions : Millimetres (Inches)

Part Number Table

| Description | Part Number |
|---|-------------|
| 3mm Round Lens, Standard LED, Blue Emitting Color | MC20415 |

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